

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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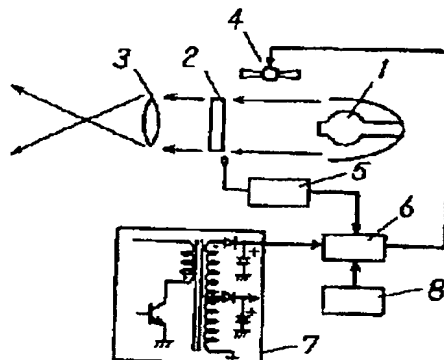
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : MIYAI HIROSHI;

INT.CL. : G02F 1/133 G09G 3/18

TITLE : LIQUID CRYSTAL PANEL  
TEMPERATURE CONTROL CIRCUIT



**ABSTRACT :** PURPOSE: To suppress temperature variation of a liquid crystal panel small by varying the driving source voltage for a fan with the output of a temperature detecting circuit and varying the cooling ability of the fan continuously.

**CONSTITUTION:** This liquid crystal panel temperature control circuit is constituted by adding a temperature detecting circuit 5 which detects the ambient temperature of an optical shutter 2, a DC voltage varying circuit 6 which supplies a variable DC voltage to the cooling fan 4, a multi-output switching power circuit 7 which supplies an output voltage to the circuit 5, a fan soft start circuit 8 which actuates the cooling fan 4 slowly, etc., to a known circuit. The liquid crystal panel temperature control circuit which is thus constituted is used to vary the cooling ability of the fan 4 continuously and the temperature variation of the liquid crystal panel is suppressed small to project a stable image without being affected by the variation in the variation in the ambient temperature, etc.

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